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Signature:

(Susan Lanney)

Docket No.: WIBL-P01-013
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Mootha et al.

Application No.: 10/560501

Confirmation No.: 3194

Filed: December 12, 2005

Art Unit: 1614

For: METHODS OF REGULATING
METABOLISM AND MITOCHONDRIAL
FUNCTION

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Applicant submits herewith copies of references BA and CA-CL1 in accordance with 37 CFR 1.98(a)(2).

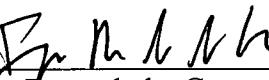
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

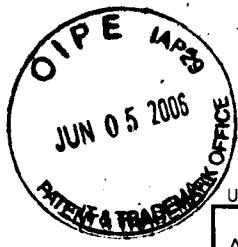
It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. WIBL-P01-013.

Dated: June 2, 2006

Respectfully submitted,

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PTO/SB/92 (09-04)

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Application No. (if known): 10/560501

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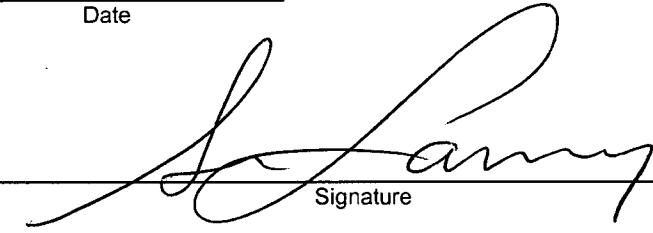
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IDS (Citation) by Applicant (46 References) (3 pages)
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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/560501
				Filing Date	December 12, 2005
				First Named Inventor	Vamsi Krishna Mootha
				Art Unit	1614 1632
				Examiner Name	Not Yet Assigned J. Hama
Sheet	1	of	3	Attorney Docket Number	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>					

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JH/	AA	US-2002/0049176	04-25-2002	Anderson	
	AB	US-2002/0064773	05-30-2002	Herrnstadt	
	AC	US-2002/0127536	09-12-2002	Aprille	
	AD	US-5,602,009	02-11-1997	Evans et al.	
	AE	US-6,453,242-B1	09-17-2002	Eisenberg et al.	
↓	AF	US-6,511,808	01-28-2003	Wolffe et al.	
↓	AG	US-6,607,882	08-19-2003	Cox, III et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JH/	BA	WO-03/068944	08-21-2003	Dana-Farber Cancer Institute, Inc.	T ⁶

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
/JH/	CA	BATCHELOR, A.H., et al., "The Structure of GABP Alpha/Beta: An ETS Domain-Ankyrin Repeat Heterodimer Bound to DNA," <i>Science</i> , 279(5353):1037-1041 (1998).			
	CB	BJORNNTORP, P., et al., "Respiration and Phosphorylation of Mitochondria Isolated from the Skeletal Muscle of Diabetic and Normal Subjects," <i>Diabetologia</i> , 2:346-352 (1966).			
	CC	CHINENOV, Y., et al., "Isolation of a bi-directional promoter directing expression of the mouse GABPa and ATP synthase coupling factor 6 genes," <i>Gene</i> , 261:311-320 (2000).			
	CD	EISEN, M.B., et al., "Cluster analysis and display of genome-wide expression patterns," <i>PNAS</i> , 95:14863-14868 (1998).			
	CE	ERIKSSON, K.F., et al., "Impaired glucose tolerance in a middle-aged male urban population: a new approach for identifying high-risk cases," <i>Diabetologia</i> , 33:526-531 (1990).			
	CF	GOLUB, T.R., et al., "Molecular Classification of Cancer: Class Discovery and Class Prediction by Gene Expression Monitoring," <i>Science</i> , 286(5439):531-537 (1999).			
	CG	HARA, K., et al., "A genetic variation in the PGC-1 gene could confer insulin resistance and susceptibility to Type II diabetes," <i>Diabetologia</i> , 45:740-743 (2002).			
↓	CH	HERZIG, S., et al., "CREB regulates hepatic gluconeogenesis through the coactivator PGC-1," <i>Nature</i> , 413:179-183 (2001).			
Examiner Signature				Date Considered	

Substitute for form 1449A/B/PTO				<i>Complete if Known</i>	
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				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	WIBL-P01-013

/JH/	CI	HUSS, J.M., et al., "Peroxisome Proliferator-activated Receptor Coactivator-1α (PGC-1α) Coactivates the Cardiac-enriched Nuclear Receptors Estrogen-related Receptor-α and -γ," <i>Biological Chemistry</i> , 277(43):40265-40274 (2002).	
	CJ	JOHNSTON, S.D., et al., "Estrogen-Related Receptor α1 Functionally Binds as a Monomer to Extended Half-Site Sequences Including One Contained within Estrogen-Response Elements," <i>Mol. Endocrinol.</i> , 11:342-352 (1997).	
	CK	KAMEI, Y., et al., "PPAR γ coactivator 1 β /ERR ligand 1 is an ERR protein ligand, whose expression induces a high-energy expenditure and antagonizes obesity," <i>PNAS</i> , 100(21):12378-12383 (2003).	
	CL	KROPF, S., et al., "Multiple Tests for Different Sets of Variables Using a Data-Driven Ordering of Hypotheses, with an Application to Gene Expression Data," <i>Biometrical Journal</i> , 44(7):789-800 (2002).	
	CM	LEWIS, S., et al., "Annotating eukaryote genomes," <i>Curr. Opin. Struc. Biol.</i> , 10:349-354 (2000).	
	CN	LIN, J., et al., "Transcriptional co-activator PGC-1α drives the formation of slow-twitch muscle fibres," <i>Nature</i> , 418:797-801 (2002).	
	CO	LIU, G., et al., "Net Affx: Affymetrix probesets and annotations," <i>Nucleic Acids Research</i> , 31(1):82-86 (2003).	
	CP	LUO, J., et al., "Reduced Fat Mass in Mice Lacking Orphan Nuclear Receptor Estrogen-Related Receptor α," <i>Molecular and Cellular Biology</i> , 23(22):7947-7956 (2003).	
	CQ	MAGLOTT, D.R., et al., "NCBI's LocusLink and RefSeq," <i>Nucleic Acids Research</i> , 28(1):126-128 (2000).	
	CR	MOOTHA, V.K., et al., "Identification of a gene causing human cytochrome c oxidase deficiency by integrative genomics," <i>PNAS</i> , 100(2):605-610 (2003).	
	CS	MOOTHA, V.K., et al., "PGC-1α-responsive genes involved in oxidative phosphorylation are coordinately downregulated in human diabetes," <i>Nature Genetics</i> , 34(3):267-273 (2003).	
	CT	PATTI, M.E., et al., "Coordinated reduction of genes of oxidative metabolism in humans with insulin resistance and diabetes: Potential role of PGC1 and NRF1," <i>PNAS</i> , 100(14):8466-8471 (2003).	
	CU	PETERSEN, K.F., et al., "Mitochondrial Dysfunction in the Elderly: Possible Role in Insulin Resistance," 300(5622):1140-1142 (2003).	
	CV	PUIGSERVER, P., et al., "A Cold-Inducible Coactivator of Nuclear Receptors Linked to Adaptive Thermogenesis," <i>Cell</i> , 92:829-839 (1998).	
	CW	PUIGSERVER, P., et al., "Peroxisome Proliferator-Activated Receptor-γ Coactivator 1α (PGC-1α): Transcriptional Coactivator and Metabolic Regulator," <i>Endocrine Reviews</i> , 24(1):78-90 (2003).	
	CX	RUSSELL, A.P., et al., "Endurance Training in Humans Leads to Fiber Type-Specific Increases in Levels of Peroxisome Proliferator-Activated Receptor-γ Coactivator-1 and Peroxisome Proliferator-Activated Receptor-α in Skeletal Muscle," <i>Diabetes</i> , 52:2874-2881 (2003).	
	CY	SCARPULLA, R.C., "Nuclear activators and coactivators in mammalian mitochondrial biogenesis," <i>Biochimica et Biophysica Acta</i> , 1576:1-14 (2002).	
	CZ	SCHARFE, C., et al., "MITOP, the mitochondrial proteome database: 2000 update," <i>Nucleic Acids Research</i> , 28(1):155-158 (2000).	
▼	CA1	SCHREIBER, S.N., et al., "The Transcriptional Coactivator PGC-1 Regulates the Expression and Activity of the Orphan Nuclear Receptor Estrogen-Related Receptor α (ERR α)," <i>J.</i>	

Examiner Signature		Date Considered	
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Sheet	3	of	3	Attorney Docket Number	WIBL-P01-013

		Biological Chemistry, 278(11):9013-9018 (2003).	
/JH/	CB1	SIMONEAU, J.A., et al., "Skeletal muscle glycolytic and oxidative enzyme capacities are determinants of insulin sensitivity and muscle composition in obese women," FASEB J., 9:273-278 (1995).	
	CC1	SREEKUMAR, R., et al., "Gene Expression Profile in Skeletal Muscle of Type 2 Diabetes and the Effect of Insulin Treatment," Diabetes, 51:1913-1920 (2002).	
	CD1	STOREY, J.D., "A direct approach to false discovery rates," J.R. Statist. Soc. B, 64(3):479-498 (2002).	
	CE1	SU, A.I., et al., "Large-scale analysis of the human and mouse transcriptomes," PNAS, 99(7):4465-4470 (2002).	
	CF1	TAMAYO, P., et al., "Interpreting patterns of gene expression with self-organizing maps: Methods and application to hematopoietic differentiation," PNAS, 96:2907-2912 (1999).	
	CG1	TAYLOR, S.W., et al., "Characterization of the human heart mitochondrial proteome," Nature Biotechnology, 21:281-286 (2003).	
	CH1	TUSHER, V.G., et al., "Significance analysis of microarrays applied to the ionizing radiation response," PNAS, 98(9):5116-5121 (2001).	
	CI1	VIRBASIU, J.V., et al., "Activation of the human mitochondrial transcription factor A gene by nuclear respiratory factors: A potential regulatory link between nuclear and mitochondrial gene expression in organelle biogenesis," PNAS, 91:1309-1313 (1994).	
	CJ1	WU, Z., et al., "Mechanisms Controlling Mitochondrial Biogenesis and Respiration through the Thermogenic Coactivator PGC-1," Cell, 98:115-124 (1999).	
	CK1	YANG, X., et al., "Microarray profiling of skeletal muscle tissues from equally obese, non-diabetic insulin-sensitive and insulin-resistant Pima Indians," Diabetologia, 45:1584-1593 (2002).	
▼	CL1	YOON, J.C., et al., "Control of hepatic gluconeogenesis through the transcriptional coactivator PGC-1," Nature, 413:131-138 (2001).	

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